		<i>k</i>	r e
	Application No.	Applicant(s))
Notice of Allowability	10/671,517 Examiner	AKAMA, FUMIO Art Unit	
	Ishwar (I. B.) Patel	2841	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate commu RIGHTS. This application is st	this application. If not included nication will be mailed in due cour	se. THIS
1. \boxtimes This communication is responsive to <u>July 6, 2005 and in</u>	nterview summary.		
2. ☑ The allowed claim(s) is/are <u>1 and 3</u> .			
3. \boxtimes The drawings filed on <u>06 July 2005</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be suit 	ave been received. ave been received in Application documents have been received E" of this communication to file NMENT of this application.	n No in this national stage application the require a reply complying with the require	ments
INFORMAL PATENT APPLICATION (PTO-152) which g			
6. CORRECTED DRAWINGS (as "replacement sheets") n		· · · · · · · · · · · · · · · · · · ·	
(a) including changes required by the Notice of Draftsp	-	(PIO-948) attached	
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examin Paper No./Mail Date 		in the Office action of	
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such i			k) of
7. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN			the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-946) 3. Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date	8) 6. ⊠ Interview Su Paper No./I B/08), 7. ⊠ Examiner's /	ormal Patent Application (PTO-15 mmary (PTO-413), Mail Date <u>0705</u> Amendment/Comment Statement of Reasons for Allowan	,
of Biological Material	9. Other		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Matthew E. Mulkeen (Reg. 44,250) on July 21, 2005.

The application has been amended as follows:

Claim 1 (currently amended):

A multilayered circuit board in which interlayer connection is achieved by the

contact of minute pointed protrusions, provided on a first conductive circuit layer, with a

second conductive circuit layer, wherein interlayer insulation is achieved by a film

having a three-layer structure, comprising a thermoplastic film inserted between a pair

of thermosetting adhesive layers, and

wherein the film having a three-layer structure is characterized in that the

thickness of the thermosetting adhesive layers is greater than the thickness of the

opposing conductive layers, and the thickness of the thermoplastic film is less than 25

<u>µm.</u>

Claim 2: Cancel.

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2. The following is an examiner's statement of reasons for allowance: A multilayer circuit board with the limitations "wherein the film having a three-layer structure is characterized in that the thickness of the thermosetting adhesive layers is **greater than** the thickness of the opposing conductive layers, and the thickness of the thermoplastic film is less than 25 μ m", in conjunction with other claimed limitations, has not been disclosed by prior of record alone or in combination.

3.

4. Claim 1 is directed to an allowable product. As claim 3 is directly depending upon and include all the limitation of allowable claim 1, claim 3, withdrawn from consideration as a result of restriction requirement, is subject to being rejoined. Claim 3 is hereby rejoined and fully examined for patentability.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the Office action mailed on February 25, 05 is hereby withdrawn.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (571) 272 1933. The examiner can normally be reached on M-F (8:30 - 5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272 1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ishwar (I. B.) Patel Examiner

Art Unit: 2841 July 21, 2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800